

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for determining the presence of biomolecules using a surface-enhanced Raman spectroscopy (SERS) system, comprising:
 - providing a first target biomolecule, a first target nanoparticle, and a first detector nanoparticle;
 - forming a first detector complex electrochemically on a conductive substrate, wherein the first detector complex includes the first target biomolecule, the first target nanoparticle, and the first detector nanoparticle, wherein the first detector nanoparticle is disposed on the first target nanoparticle, wherein the first target nanoparticle is disposed on the first target biomolecule, and wherein the first target biomolecule is disposed on the conductive substrate;
 - directing a laser at the first detector complex, wherein the interaction of the laser with the first detector complex produces a SERS signal specific for the first target biomolecule; and
 - detecting the SERS signal, wherein the presence of the SERS signal indicates the presence of the biomolecule.
2. (Currently Amended) The method of claim 1, wherein forming a the first detector complex electrochemically, further comprises:
 - forming a first target complex that includes the first target biomolecule and the first target nanoparticle; and
 - disposing the first target complex onto the first conductive substrate.
3. (Currently Amended) The method of claim 1, wherein forming a the first detector complex electrochemically, further comprises:
 - disposing the first target biomolecule onto the first conductive substrate;
 - contacting the first target nanoparticle with the first target biomolecule; and

forming a first target complex on the first conductive substrate, wherein the first target complex includes the first target biomolecule and the first target nanoparticle.

4. (Original) The method of claim 1, wherein the first target nanoparticle includes a gold nanoparticle.
5. (Original) The method of claim 1, wherein the first detector nanoparticle includes a silver nanoparticle.
6. (Original) The method of claim 1, wherein forming a first detector complex, comprises:
applying a voltage to the first conductive support.
7. (Original) The method of claim 1, wherein forming a first detector complex comprises:
contacting the first conductive substrate to a foreign conductive structure to cause the reduction of the first detector nanoparticle onto the first target nanoparticle.
8. (Original) The method of claim 1, wherein a first marker molecule is attached to the first target biomolecule.
9. (Original) The method of claim 1, wherein a first marker molecule is attached to the first target nanoparticle.

10-25. (Canceled)